

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		2016-4010US2	09/335,581
		APPLICANT(S) Bannan et al.	#4
		FILING DATE June 18, 1999	GROUP ART UNIT PDA 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
m	5,378,607	01/03/95	Chelladurai et al.	1	1	
m	5,437,978	08/01/95	Ubukata et al.			
m	5,470,716	11/28/95	Leung et al.			
m	5,476,767	12/19/95	Leung et al.			
m	5,519,114	05/21/96	Johnson et al.			10/29/93
m	5,529,934	06/25/96	Chelladurai et al.			07/29/91
m	5,545,716	08/13/96	Johnson et al.			03/29/94
m	5,585,465	12/17/96	Leung et al.			05/12/95
	5,601,830	2/11/97	Su et al.			
m	5,705,151	1/6/98	Dow et al.			
m	5,728,388	3/17/98	Terman			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
WO	91/10680	07/25/91	PCT	1	1		
WO	93/24136	12/09/93	PCT				
WO	94/20124	09/15/94	PCT				
WO	94/25483	11/10/94	PCT				
WO	96/36366	11/21/96	PCT				
WO	96/40930	12/19/96	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

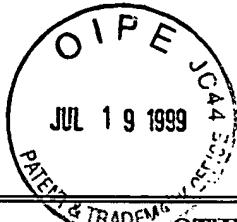
		Bannan, J. et al., "Structure and Function of Streptococcal and Staphylococcal Superantigens in Septic Shock", <i>Infectious Disease Clinics of North America</i> 13(2):387-396 (June 1999); (mailed May 11, 1999 according to the publisher, W. B. Saunders Co.)
m		Bannan, J.D. et al., "Neutralization Of Streptococcal Pyrogenic Exotoxins And Staphylococcal Enterotoxins By Antiserum To Synthetic Peptides Representing Conserved Amino Acid Motifs", <i>Adv. Exp. Med. Biol.</i> 418:903-907 (1997); (published May 1997 in U.S. and Sept. 1997 in Britain according to the publisher's (Plenum Press, New York) catalog at http://www.plenum.com/title.cgi?0306456036)

M/M/M/Jinawield 01/02/01

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		2016-4010US2	09/335,581
		APPLICANT(S)	Bannan et al.
		FILING DATE	June 18, 1999
		GROUP ART UNIT	
		<i>TBA 1645</i>	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)			
<i>M</i>		Bavari, S. et al., "Superantigen vaccines: a comparative study of genetically attenuated receptor-binding mutants of staphylococcal enterotoxin A", <u>Journal of Infectious Diseases</u> 174(2):338-45 (1996)	
<i>M</i>		Blomster-Hautamaa, E.A. et al. "Localization of biologic functions of toxic shock syndrome toxin-1 by use of monoclonal antibodies and cyanogen bromide-generated toxin fragments," <u>J. Immunol.</u> 137(11):3572-3576 (1986)	
<i>M</i>		Bohach, G.A., et al., "Biological and immunological properties of the carboxyl terminus of Staphylococcal entero-toxin C1," <u>Infect. Immun.</u> 57(1):23-28 (1989)	
<i>M</i>		Bonventre, P.F. et al., "A mutation at histidine residue 135 of toxic shock syndrome toxin yields an immunogenic protein with minimal toxicity," <u>Infect. Immun.</u> 63(2):509-515 (1995)	
<i>M</i>		Chu, N.R. et al., "Comparison of peptide and superantigen-induced anergy in a peptide-specific polyclonal human T cell line," <u>Int. Immunol.</u> 7(7):1057-1063 (1995)	
<i>M</i>		Drynda, A., et al., "Role of a carboxy-terminal site of toxic shock syndrome toxin 1 in eliciting immune responses of human peripheral blood mononuclear cells," <u>Infect. Immun.</u> 63(3):1095-1101 (1995)	
<i>M</i>		Edwin, C., et al., "Structure-activity relationship of toxic-shock-syndrome toxin-1: derivation and characterization of immunologically and biologically active fragments," <u>J. Infect. Dis.</u> 158(6):1287-1295 (1988)	
<i>M</i>		Edwin, C., et al., "Specificity and cross-reactivity of staphylococcal enterotoxin A monoclonal antibodies with enterotoxins B, C ₁ , D, and E", <u>Applied & Environmental Microbiology</u> , 52(6): 1253-7 (1986)	
		Fischetti, V.A., et al., "Streptococcal M Protein Extracted By Nonionic Detergent", <u>The Journal of Experimental Medicine</u> , 144/1:32-53 (1976)	
		Griggs, N.D., et al., "Mapping of Multiple Binding Domains of the Superantigen Staphylococcal Enterotoxin A for HLA", <u>J. Immunol.</u> , 148(8):2516-2521 (1992)	
<i>M</i>		Grossman, D., et al., "Mutation of the disulfide loop in staphylococcal enterotoxin-A -Consequences for T-Cell recognition," <u>J. Immunol.</u> 147(10):3274-3281 (1991)	

NMReinfield 1/2/01

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		2016-4010US2	09/335,581
		APPLICANT(S)	Bannan et al.
		FILING DATE	GROUP ART UNIT TBA 1645
 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)			

<i>m</i>		Harris, T.O. and Betley, M.J., "Biological activities of Staphylococcal-enterotoxin type-A mutants with N-terminal substitutions," <u>Infect. Immun.</u> 63(6):2133-2140 (1995)
<i>M</i>		Hartwig, U.F., et al., "Mutations affecting MHC class II binding of the superantigen streptococcal erythrogenic toxin A", <u>Intern'l Immunol.</u> , 5:869-75 (1993)
<i>M</i>		Hayball, J.D., et al. "The domain structure and functional relationships in the bacterial superantigen SEB," <u>Biol. Chem. Hoppe-Seyler</u> 376:303-309 (1995)
<i>M</i>		Hoffmann, M.L., et al., "Predictions of T-Cell Receptor- and Major Histocompatibility Complex-Binding Sites on Staphylococcal Enterotoxin C1", <u>Infect. Immun.</u> , 62(8):3396-3407 (1994)
<i>M</i>		Hovde, C.J. , et al. "Investigation of the role of disulphide bond activity and structure of staphylococcal enterotoxin Cl," <u>Mol. Micro.</u> 13(5):897-909 (1994)
		Huang, I.Y., et al., "Complete amino acid sequence of staphylococcal enterotoxin A", <u>J. Biol.Chem.</u> , 262(15) 7006-7013 (1987)
<i>M</i>		Huang, I.Y., et al., "The primary structure of staphylococcal enterotoxin B. III. The cyanogen bromide peptides of reduced and aminoethylated enterotoxin B, and the complete amino acid sequence", <u>J. Biol. Chem.</u> , 245(14):3518-25 (1970)
<i>M</i>		Hynes, W. L., et al. "Immunologic Cross-Reactivity of Type A Streptococcal Exotoxin (Erythrogenic Toxin) and Staphylococcal Enterotoxins B and C1", <u>Infect. Immun.</u> , 55(3): 837-838 (1987)
<i>M</i>		Iandolo, J.J., "Genetic analysis of extracellular toxins of <i>Staphylococcus aureus</i> ", <u>Annu. Rev. Microbiol.</u> , 43:375-402 (1989)
<i>M</i>		Jett, M., et al., "Identification of Staphylococcal Enterotoxin B Sequences Important for Induction of Lymphocyte Proliferation by Using Synthetic Peptide Fragments of the Toxin", <u>Infect. Immun.</u> , 62(8):3408-3415 (1994)
<i>M</i>		Kline, J.B. and Collins, J.M., "Analysis of superantigenic activity of mutant and allelic forms of streptococcal pyrogenic exotoxin A," <u>Infect. Immun.</u> 64(3):861-869 (March 1996)

N Mepinfield 01/02/01

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		2016-4010US2	09/335,581
		APPLICANT(S)	Bannan et al.
		FILING DATE	June 18, 1999
		GROUP ART UNIT	TBA 1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)			
M		Lamphear, J.G., et al., "Residues near the amino and carboxyl termini of staphylococcal enterotoxin E independently mediate TCR V beta-specific interactions", <u>J. Immunol.</u> , 156(6):2178-85 (1996)	
M		Marrack, P., et al. "The Staphylococcal Enterotoxins and Their Relatives", <u>Science</u> , Vol. 248, pp. 705-711 (1990)	
M		Norrby-Teglund, A., et al., "Plasma from patients with severe invasive group A streptococcal infections treated with normal polyspecific IgG inhibits streptococcal superantigen-induced T cell proliferation and cytokine production", <u>J. Immunol.</u> , 156(8):3057-64 (1996)	
M		Pontzer, C.H., et al., "Localization Of An Immune Functional Site On Staphylococcal Enterotoxin A Using The Synthetic Peptide Approach", <u>J. Immunol.</u> , 143(1):280-284 (1989)	
		Pontzer, C.H., et al., "Agonist Properties of a Microbial Superantigen Peptide", <u>Biochem. Biophys. Res. Comm.</u> , 193(3):1191-1197 (1993)	
M		Printout from the Genetics Computer Group "Motifs" software (citing: Program Manual for the Wisconsin Package, Version 8, September 1994, Genetics Computer Group, 575 Science Drive, Madison, WI, USA 53711)	
M		Ramesh, N., et al., "A toxic shock syndrome toxin-1 peptide that shows homology to mycobacterial heat shock protein 18 is presented as conventional antigen to T cells by multiple HLA-DR alleles," <u>J. Immunol.</u> 148(4):1025-1030 (1992)	
M		Ramesh, N., et al., "A toxic shock syndrome toxin-1 peptide that shows homology to amino acids 180-193 of mycobacterial heat shock protein 65 is presented as conventional antigen," <u>Immunol. Invest.</u> 23(6-7):381-391 (1994)	
		Reda, K.B., et al., "Molecular Characterization and Phylogenetic Distribution of the Streptococcal Superantigen Gene (ssa)", <u>Infection and Immunity</u> , 62/5:1867-1874 (May 1994)	
M		Schlievert, P.M., et al., "Molecular structure of staphylococcus and streptococcus superantigens", <u>J. Clin. Immunol.</u> , 15(6) Suppl:4S-10S (1995)	
M		Singh, B.R., et al., "Comparative structural analysis of staphylococcal enterotoxins A and E", <u>J. Biol. Chem.</u> , 264(8):4404-11 (1989)	

M M M M Springfield 01/02/01

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		2016-4010US2	09/335,581
APPLICANT(S) Bannan et al.			
		FILING DATE	GROUP ART UNIT
		June 18, 1999	TBA 1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)			
M		Singh, B.R. et al., "Structural analysis of staphylococcal enterotoxins B and C ₁ using circular dichroism and fluorescence spectroscopy", <u>Biochemistry</u> , 27(24):8735-41 (1988)	
M		Soos, J.M. and Johnson, H.M., "Multiple binding sites on the superantigen, staphylococcal enterotoxin B, imparts versatility in binding to MHC Class II molecules," <u>Biochem. Biophys. Res. Comm.</u> 201(2):596-602 (1994)	
M		Spero, L., et al. "Biological Activities of the Peptides of Staphylococcal Enterotoxin C Formed by Limited Tryptic Hydrolysis", <u>J. Biol. Chem.</u> , 253(24):8787-8791 (1978)	
M		Spero, L., et al., "On the cross-reactivity of staphylococcal enterotoxins A, B, and C", <u>J. Immunol.</u> , 120:86-89 (1978)	
M		Spero, L., et al., "Cross-reaction between tryptic polypeptides of staphylococcal enterotoxins B and C", <u>J. Immunol.</u> , 122:1285-1289 (1979)	
M		Sriskandan, S. et al., "Streptococcal pyrogenic exotoxin A release, distribution, and role in a murine model of fascitis and multiorgan failure due to Streptococcus pyogenes", <u>J. Infect. Dis.</u> , 173(6):1399-407 (1996)	
M		Swaminathan, S., et al. "Crystal structure of staphylococcal enterotoxin B, a superantigen", <u>Nature</u> , 359:801-806 (1992)	
M		Takei, S., et al. "Intravenous immunoglobulin contains specific antibodies inhibitory to activation of T cells by staphylococcal toxin superantigens", <u>J. Clin. Invest.</u> , 91:602-607 (1993)	
		Van Den Bussche, et al., "Molecular Evolution of the Staphylococcal and Streptococcal Pyrogenic Toxin Gene Family", <u>Molecular Phylogenetics and Evolution</u> , 2:281-292, (1993)	
M		Warren, J.R., et al. "Stabilization of native structure by the closed disulfide loop of staphylococcal enterotoxin B," <u>Biochimica et Biophysica Acta</u> 359:351-363 (1974)	
M		Woo, J., et al. "Development of mutants of Staphylococcal toxic shock syndrome toxin-1," <u>Molecules and Cells</u> , 6(1):79-85 (Feb. 1996)	
M		Copy of slides from oral presentation by Dr. Jason Bannan at "XIII Lancefield International Symposium on Streptococci and Streptococcal Diseases, Paris, France, 9/16/96 to 9/20/96"	
		Copy of Search Report in PCT/US98/06663 (listing references and related patents)	
EXAMINER	DATE CONSIDERED	<i>11/11/98 J. Bannan</i>	

FORM PTO-1449	U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.	SERIAL NO.
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>			2016-4010US2	09/335,581
			APPLICANT(S)	<i>Bannan et al.</i> #5
			FILING DATE	GROUP ART UNIT
			June 18, 1999	1645
U. S. PATENT DOCUMENTS				



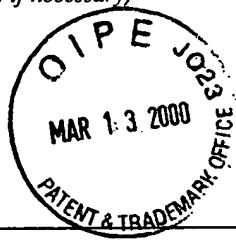
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
<i>MM</i>	WO	98/45325	10/15/98	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)							

EXAMINER	DATE CONSIDERED
<i>MM Minsfield</i>	<i>12/14/00</i>

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.	SERIAL NO.
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>			2016-4010US2	09/335,581
			APPLICANT(S)	#6
			Bannan et al.	
			FILING DATE	GROUP ART UNIT
			June 18, 1999	1645
U.S. PATENT DOCUMENTS				



EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
MM	WO	98/29444	07/09/98	PCT				

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Papers, Etc.*)

MM		International Search Report from related application PCT/US99/22180, international filing date: September 24, 1999; claimed priority date: October 7, 1998

EXAMINER	DATE CONSIDERED
----------	-----------------

MM Minfield 12/14/00